User manual

IPOK & IPOK-S PN40

Doc 1858 EN - Rev. C

POK SA - ZI les Guignons 10400 Nogent sur Seine - France
Tel : (+33) 03 25 39 84 78 - Fax : (+33) 03 25 39 84 90 - Email : info@pok.fr - Web : www.pok.fr

Identification

Subject	Value
Product type	Nozzle
Product	IPOK, IPOK-S, POKINOR 150, Magilite PN40
References	Body : 28123, 28272, 28276 Nozzle : 30495, 28286
Document #	1858
Language	English
Creation date	26/06/2012
Modification date	04/07/2012
Modification follow up	**Rev. A :** • Original file **Rev. B :** • Correction of GPM Flow rate • Nozzle POKINOR 150 added **Rev. C :** • IPOK/IPOK-S + POKINOR 150 EN15182 datasheet added • IPOK/IPOK-S + Magilite PN40 EN15182 datasheet added

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• Introduction

Please read this manual before using the product.

Use, maintenance or any operation have to be made only by persons aware of the security rules and trained for the use of this equipment.

Please respects the hydraulic characteristics, going over may be dangerous at use, or offer bad performances.

• Dismantling and warranty

This equipment has a limited warranty of 1 year for any fabrication problem.

Exploded view and bill of materials are not dismantling note.

Do not try to repair or modify the equipment, it may be not working properly and/or dangerous at use.

Dismantling this equipment outside POK factory cancel the warranty.

Do not try to dismantle the Nozzle Magilite PN40, it may require special tools and has to be adjust for flow rate. If you do not respect this rule your nozzle won't give the proper flow rate and may have performances decreased.

If for any reason the equipment is repaired outside POK factory, please order spare parts at POK, otherwise the characteristics described in this document won't be valid anymore, and POK responsability void.

Only POK can ensure performances and security folowing to a dismantling. POK SA can't be responsible of any damage following dismantling outside its factory.

• Use

Please respect the technical limits of the equipment.

Be careful with the reaction force : from 8 Kg (150 l/min @ 6 bar / 40 GPM @ 90 PSI) up to 22 Kg (150 l/min @ 40 bar / 40 GPM @ 580 PSI).

It is important to get aware and to respect the security rules in the operating envirronement before using the equipment.

Do not use the equipment if a part is damaged or missing.

POK SA can't be responsible of any accident which occured while using the equipment if the operation and security rules are not respected.

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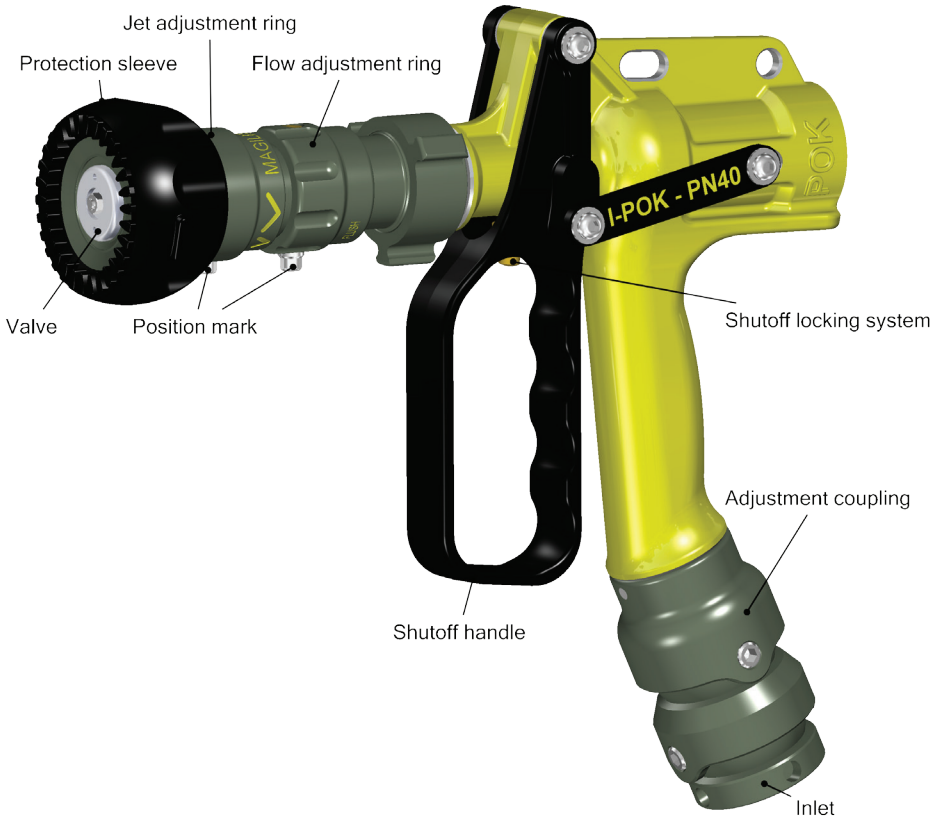
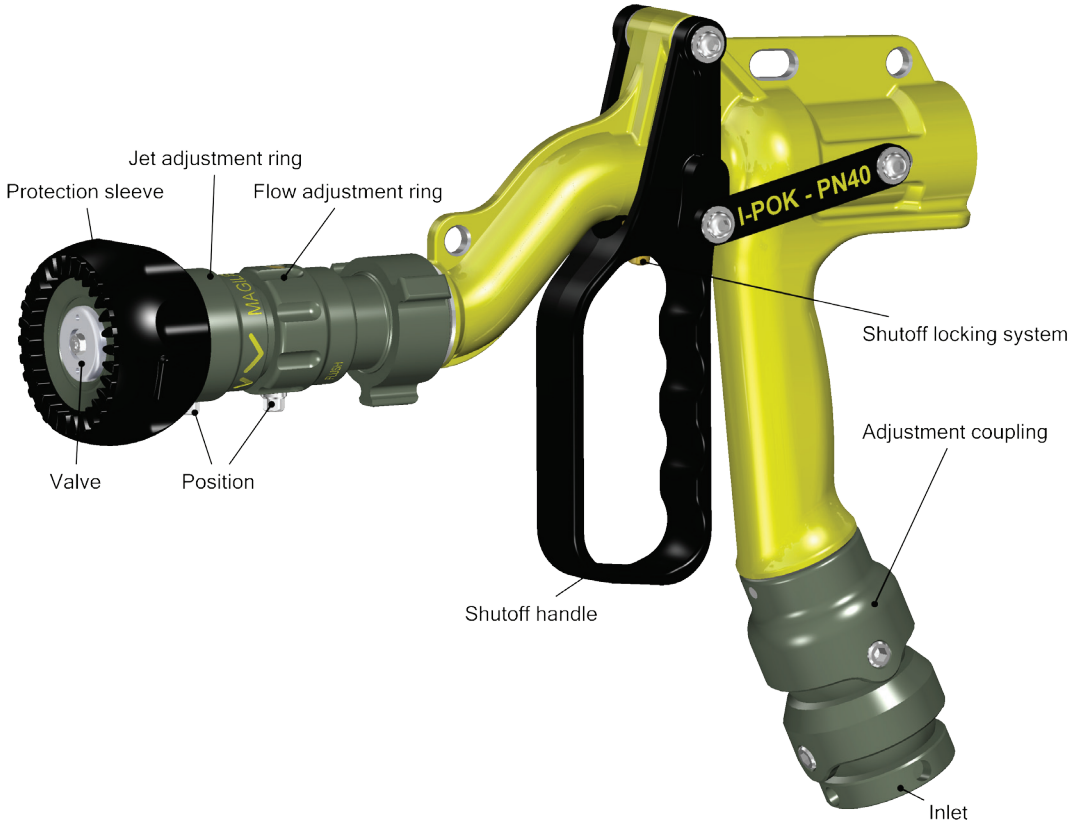
IPOK + Nozzle Magilite PN40



IPOK-S + Nozzle Magilite PN40



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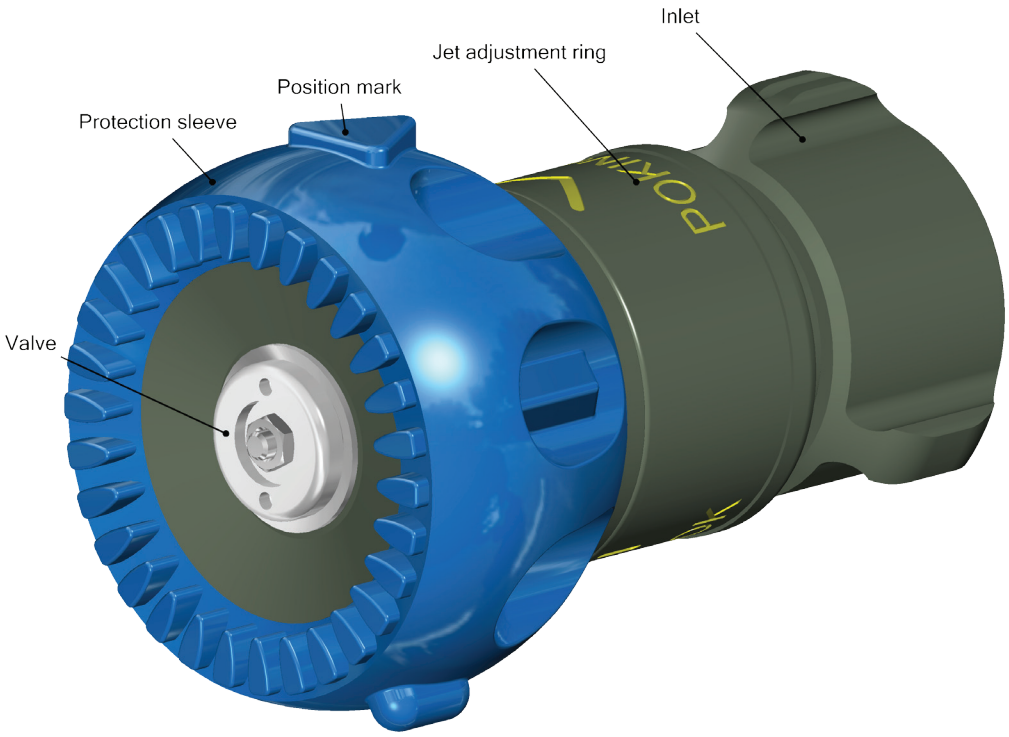
Nozzle POKINOR 150



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Characteristics

Construction	
Body	• Aluminium alloy • Coating : yellow polyester painting
Nozzle	• Alluminium alloy • Coating : OAD or Nituff
Protection sleeve	Thermoresistant polyurethane
Adjustment coupling	• Aluminium alloy • Coating : OAD or Nituff
Friction parts	• Brass, aluminium
Screws	• Stainless steel

Handle characteristics	
Inlet	• Female thread 1'' BSP or 1.5'' BSP • Couplings corresponding to your area may be supplied
Outlet	Male thread 1'' NST
Working pressure	Up to 40 bar / 580 PSI
Shutoff locking system	Placed on the shutoff handle, lock only the «open» position
Adjustment coupling angle	• Horizontal : -20° / +20° • Vertical : -20° / +20° • Rotating at 360° at the coupling outlet

POKINOR characteristics	
Inlet	Female thread 1'' NST
Flow rate	• 6 bar Up to 250 l/min / 65 GPM • 40 bar Up to 150 l/min / 40 GPM
Working pressure	6 to 40 bar (90 to 580 PSI) Standard : 6 bar or 40 bar **Note :** flow and pressure adjustments have to be made in factory, the product will only be efficient at the requested working pressure.
Jet	From «straight» to «spread» (110°) without indexing system
Flush position	Yes

Magilite PN40 characteristics	
Inlet	Female thread 1'' NST
Flow rate	• 50-75-100 l/min / 13-20-25 GPM (standard) • Flow adjustment ring adaptable on demand • Flow rate up to 150 l/min (40 GPM)
Working pressure	6 to 40 bar (90 to 580 PSI) Standard : 40 bar **Note :** flow and pressure adjustments have to be made in factory, the product will only be efficient at the requested working pressure.
Jet	• Straight • Attack (30°) • Spread (130°)
Flush position	Yes

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IPOK/IPOK-S + POKINOR 150
/!\ DOES NOT COMPLY WITH EN15182 /!

• General data

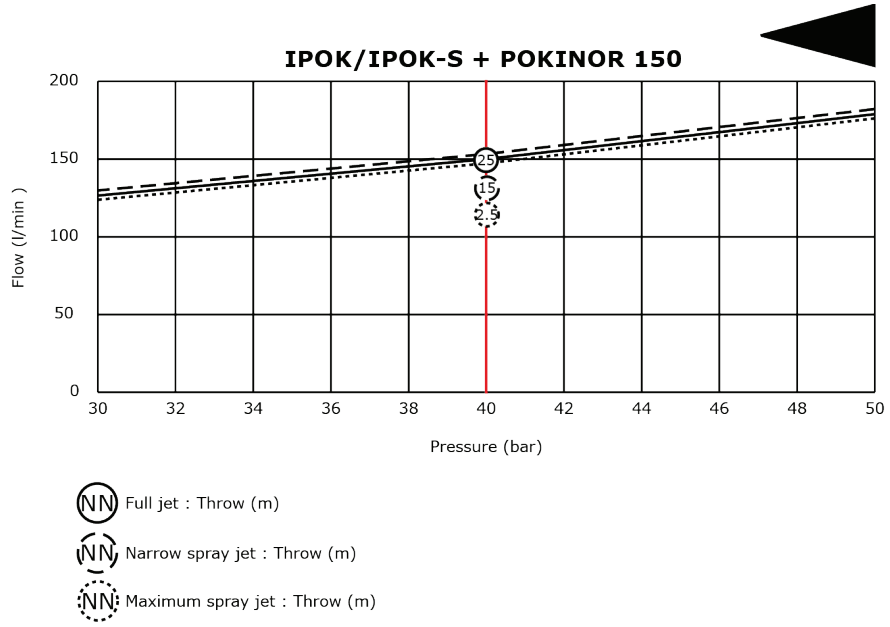
1.1	Manufacturer	POK
1.2	Type	IPOK/IPOK-S + POKINOR 150

1.3	Type according to EN 15182-1, Annex A	-

1.4	Flow rate settings at p_R	150 l/min @ 40 bar
1.5	Flow adjustments	-

1.6	Type of spray	Full cone spray

• Flow/pressure chart



• Operational devices

3.1	Fitting system	Swivelling
3.2	Gripping device	Pistol grip
3.3	Open / Shut-off device	Trigger
3.4	Jet / spray system	Rotating element
3.5	Flow adjustment system	-

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Characteristics

EN 15182 datasheet

- **Requirements**

	Number of the relevant subclause of this part of this standard	Item	Test result
OPERATING AND HANDLING	-2 / § 4.2.1	**Dimensions** (mm)	376x305x80
	-2 / § 4.2.1	**Mass** (kg)	2.7
	-2 / § 4.2.2.1	**Torques** needed for moving operating elements (N.m)	
	-2 / § 4.2.2.1	Lever	-
	-2 / § 4.2.2.1	Trigger	12
	-2 / § 4.2.2.1	Flow adjustment element	-
	-2 / § 4.2.2.1	Jet adjustment element	3
	-2 / § 4.2.2.1	Rotating inlet element	2
	-2 / § 4.2.3	**Flow adjustment** Rotation from minimal to maximal flow	-
	-2 / § 4.2.4	**Jet adjustment** Rotation from straight jet to wide spray jet	155°
PEROFRMANCE	-2 / § 4.3.3	Effective throw (m)	25
		Spray jet	
	-2 / § 4.3.4	Wide spray jet : angle	110°
	-2 / § 4.3.5	Narrow spray jet : angle	35°
PHYSICS	-1 / § 7.2.2	**Sensitivity to frost (°C)**	-17°
	-1 / § 7.2.1	**Sensitivity to heat (°C)**	+80°
	-1 / § 6.3.1	**Non-obstruction test (mm)**	5
	-2 / § 4.3.1	**Burst pressure (bar)**	>60

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Characteristics

EN 15182 datasheet

• General data

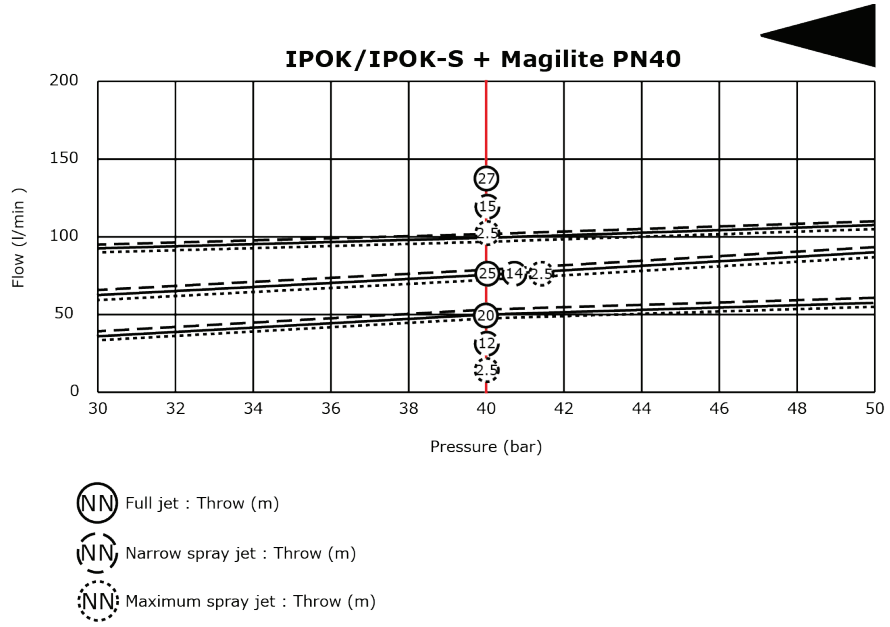
1.1	Manufacturer	POK
1.2	Type	IPOK/IPOK-S + Magilite PN40

1.3	Type according to EN 15182-4, Annex A	Type 3

1.4	Flow rate settings at p_R	100 l/min @ 40 bar
1.5	Flow adjustments	50-75-100

1.6	Type of spray	Full cone spray

• Flow/pressure chart



• Operational devices

3.1	Fitting system	Swivelling
3.2	Gripping device	Pistol grip
3.3	Open / Shut-off device	Trigger
3.4	Jet / spray system	Rotating element
3.5	Flow adjustment system	Rotating element

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Characteristics

EN 15182 datasheet

- **Requirements**

	Number of the relevant subclause of this part of this standard	Item	Test result
OPERATING AND HANDLING	-2 / § 4.2.1	**Dimensions** (mm)	405x305x78
	-2 / § 4.2.1	**Mass** (kg)	2.7
	-2 / § 4.2.2.1	**Torques** needed for moving operating elements (N.m)	
	-2 / § 4.2.2.1	Lever	-
	-2 / § 4.2.2.1	Trigger	12
	-2 / § 4.2.2.1	Flow adjustment element	4.5
	-2 / § 4.2.2.1	Jet adjustment element	3
	-2 / § 4.2.2.1	Rotating inlet element	2
	-2 / § 4.2.3	**Flow adjustment** Rotation from minimal to maximal flow	90
	-2 / § 4.2.4	**Jet adjustment** Rotation from straight jet to wide spray jet	150°
PEROFRMANCE	-2 / § 4.3.3	Effective throw (m)	25
		Spray jet	
	-2 / § 4.3.4	Wide spray jet : angle	130°
	-2 / § 4.3.5	Narrow spray jet : angle	35°
PHYSICS	-1 / § 7.2.2	**Sensitivity to frost (°C)**	-17°
	-1 / § 7.2.1	**Sensitivity to heat (°C)**	+80°
	-1 / § 6.3.1	**Non-obstruction test (mm)**	5
	-2 / § 4.3.1	**Burst pressure (bar)**	>60

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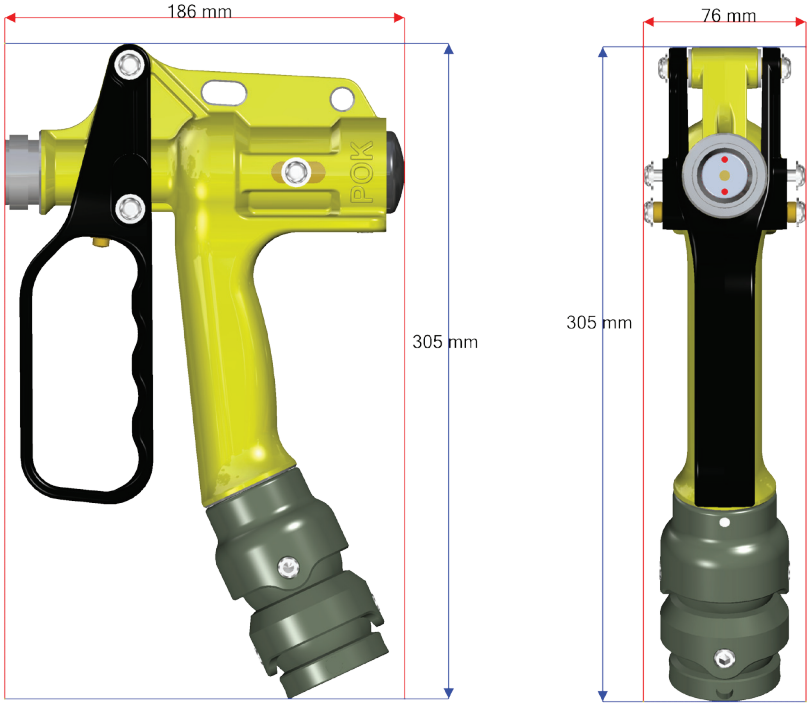
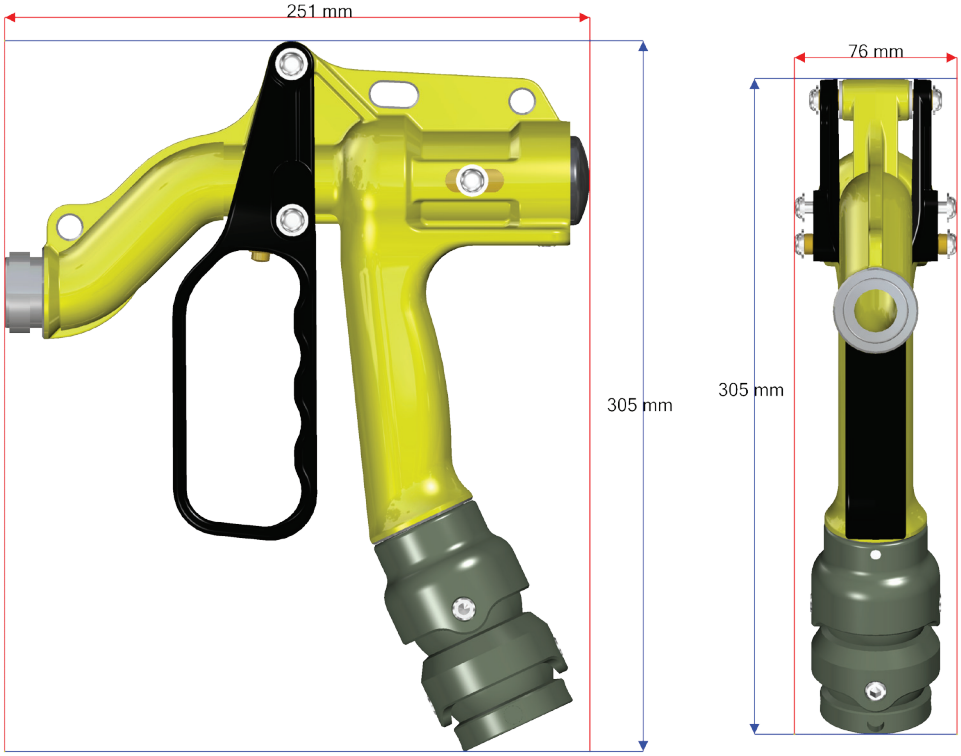
Overall dimensions

• IPOK



WEIGHT : 1.9 Kg

• IPOK-S



WEIGHT : 2 Kg

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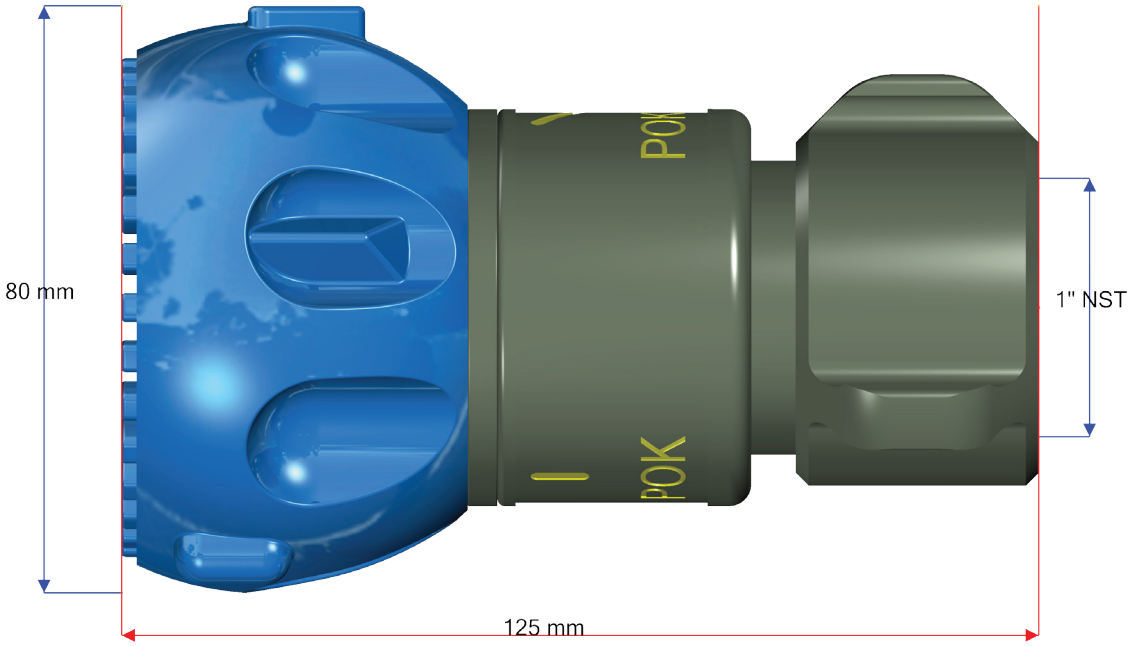
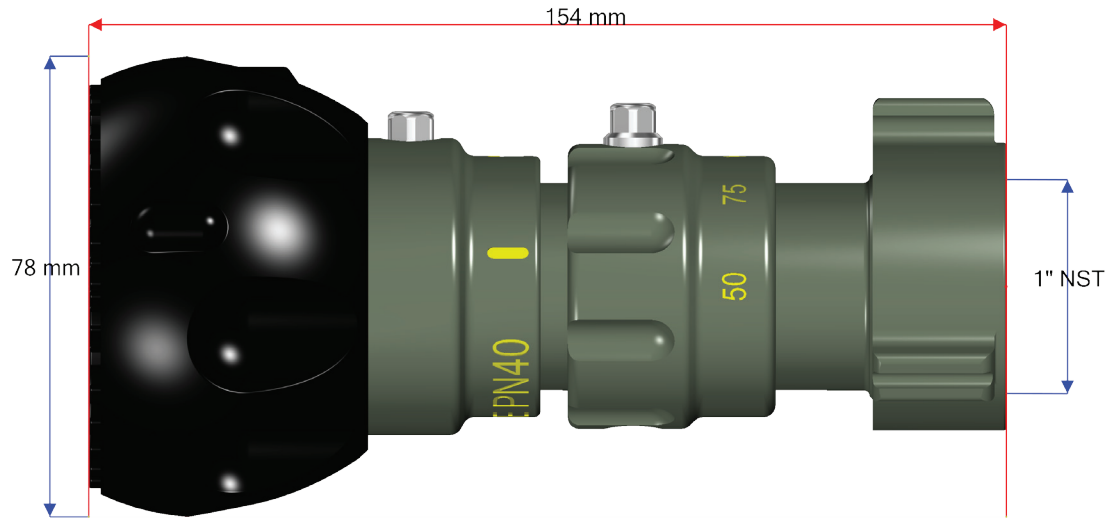
Overall dimensions

• Nozzle POKINOR 150



WEIGHT : 0.7 Kg

• Nozzle Magilite PN40



WEIGHT : 0.7 Kg

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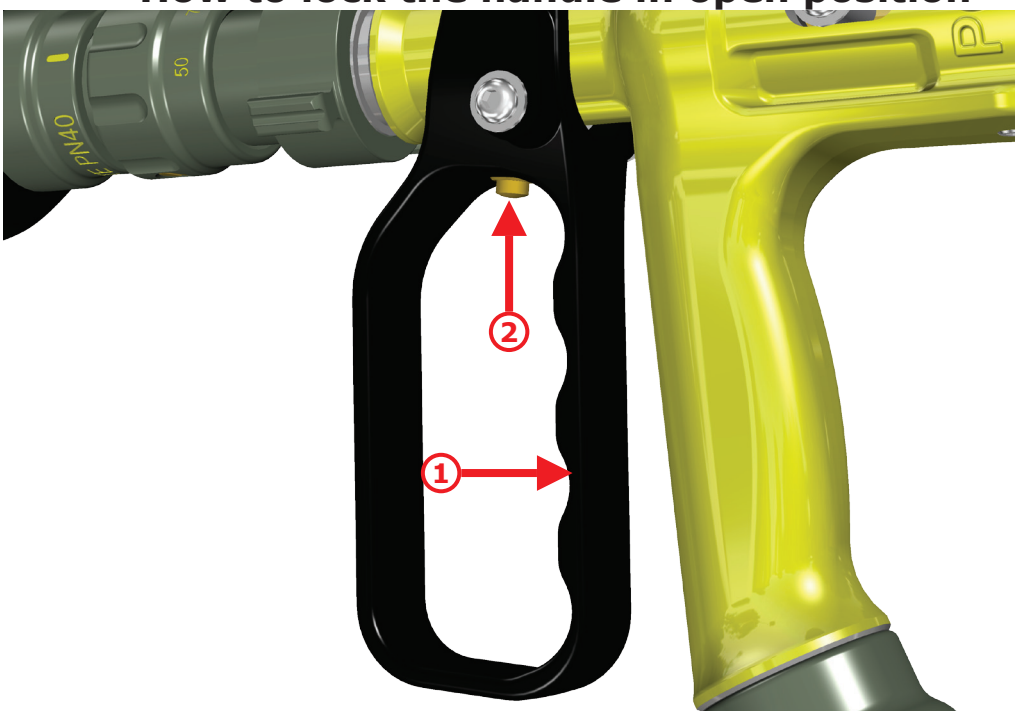
• Putting the equipment under service

1 - Make sure no part is missing or damage.
2 - Make sure the components move as they should (jet adjustment ring, flow adjustment ring, shutoff handle, adjustment coupling).
3 - Connect a water way to the shutoff inlet (1" or 1,5" depending on your model).
4 - Make sure your hose are correctly connected and that there is no hose misplacement.
5 - Put the equipment under water and pressure.

Note : depending on your pressure of use, special characteristics may be require on your hose. Becarful to the hose force when it is put under water and pressure.

• How to lock the handle in open position

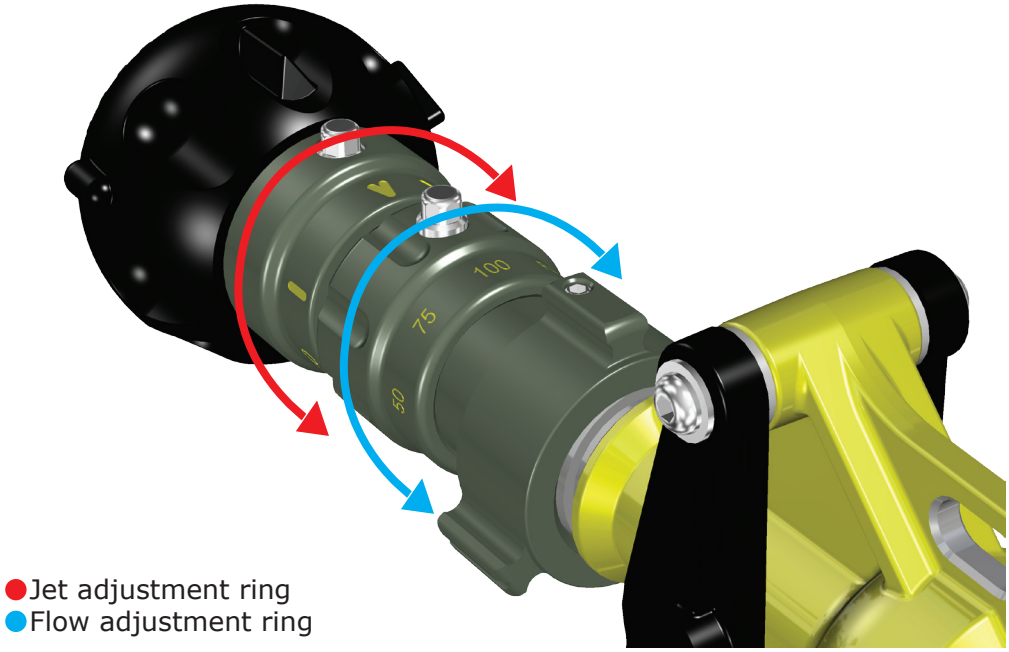


Using the handle locking system

While using se the nozzle, you can lock the handle on the open position.

1 - Open the shutoff and maintain it open.
2 - Push the lock button.
3 - Release the shutoff handle, it should move a bit and then be blocked.
4 - To unlock simply use the shutoff handle as if you were trying to use the open position, the locking system will be released.

• How to adjust flow rate and jet angle (Magilite)



Adjustments ring

Depending on your operating condition, you may need to adjust the flow rate and the jet angle.

On the nozzle just rotate to the left or to the right the protection sleeve to adjust the jet angle from straight to spread (130°).

To adjust flow rate, rotate the ring with number written on it (the closest mark to the handle).

Note : If you rotate to the left too far, you will put the nozzle in flush position. This position open the valve at its maximum in order to evacuate particles stuck in the nozzle.

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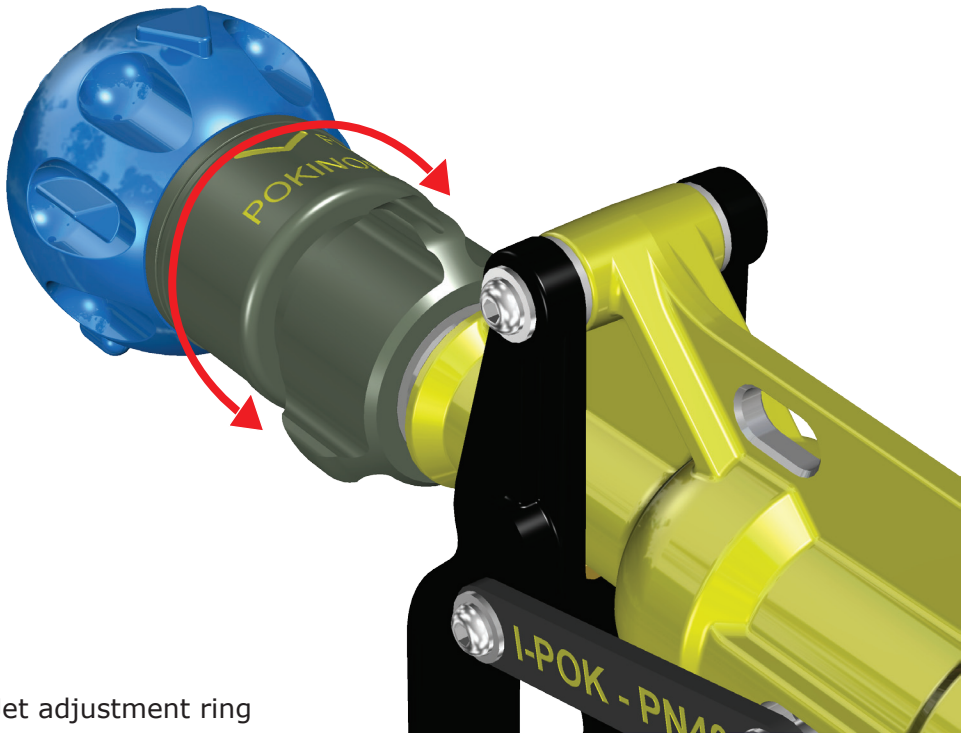
• How to adjust jet angle (POKINOR)



Adjustment ring

●Jet adjustment ring

Withe the POKINOR Nozzle, you can't adjust the flow rate, it is adjusted in factory.

Perhaps you can change the jet shape, from straight to spread (110°) without indexing pin.

This mean when rotate the jet adjustment ring, you can let it on its position without risks, it may be useful in some conditions.

Note : If you rotate to the left too far, you will put the nozzle in flush position. This position open the valve at its maximum in order to evacuate particles stuck in the nozzle.

• Limits

While using the equipment, please respects the following rules :

- Do not target someone with the jet.
- Make sure you're complying with the security rules in your operating environnement.
- **Becarful to the reaction force**. (see «warning» for more details).

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• Cleaning

In order to maintain the equipment working properly it is recommended to do those operations after every use :

• Rotate the flow adjustment ring to «Flush» and let the nozzle working with clear water. This operation will clean up inside the nozzle and evacuate the remaining particles. This operation is much more important if you do not use clear water at use.

• Clean the exterior of the nozzle with clear water.

Note : Do not use corrosive products, this would damage gaskets with consequences of leackage and malfunction.

• Make sure no parts are missing or damaged. In this case do everything necessary to replace it as soon as possible and do not use the nozzle while it's not repaired.

Note : Under pressure and especially high pressure any missing parts may make the nozzle dangerous at use.

• Make sure every parts move as they should move, the adjustments ring must rotate without be block or hard to move (an indexing system is present to lock the current position, but nothing should be harder that this point). The handle should move without particular effort, and the locking system should work properly. The inlet coupling must move properly in any direction (-20° / +20° and rotate at 360°).

/!\ WARNING /!

With a nozzle set to work at 40 bar (580 PSI), the valve must not be damaged, pay a special attention to this while using, cleaning or stocking it. Any damage may change the shape of the jet and have a negative effect on performances.

• Spare parts

Depending on storage and/or using conditions, some parts may need to be replaced more or less often.Please contact our sales service in order to obtain information about return, or to receive spare parts.
Use the exploded view and bill of materials to identify the parts.

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Exploded view

Overview - IPOK

REP	QTY	DESCRIPTION	REF
1	28	Balls Ø4	
2	1	Gasket R27	
3	1	Inlet coupling cap	00752

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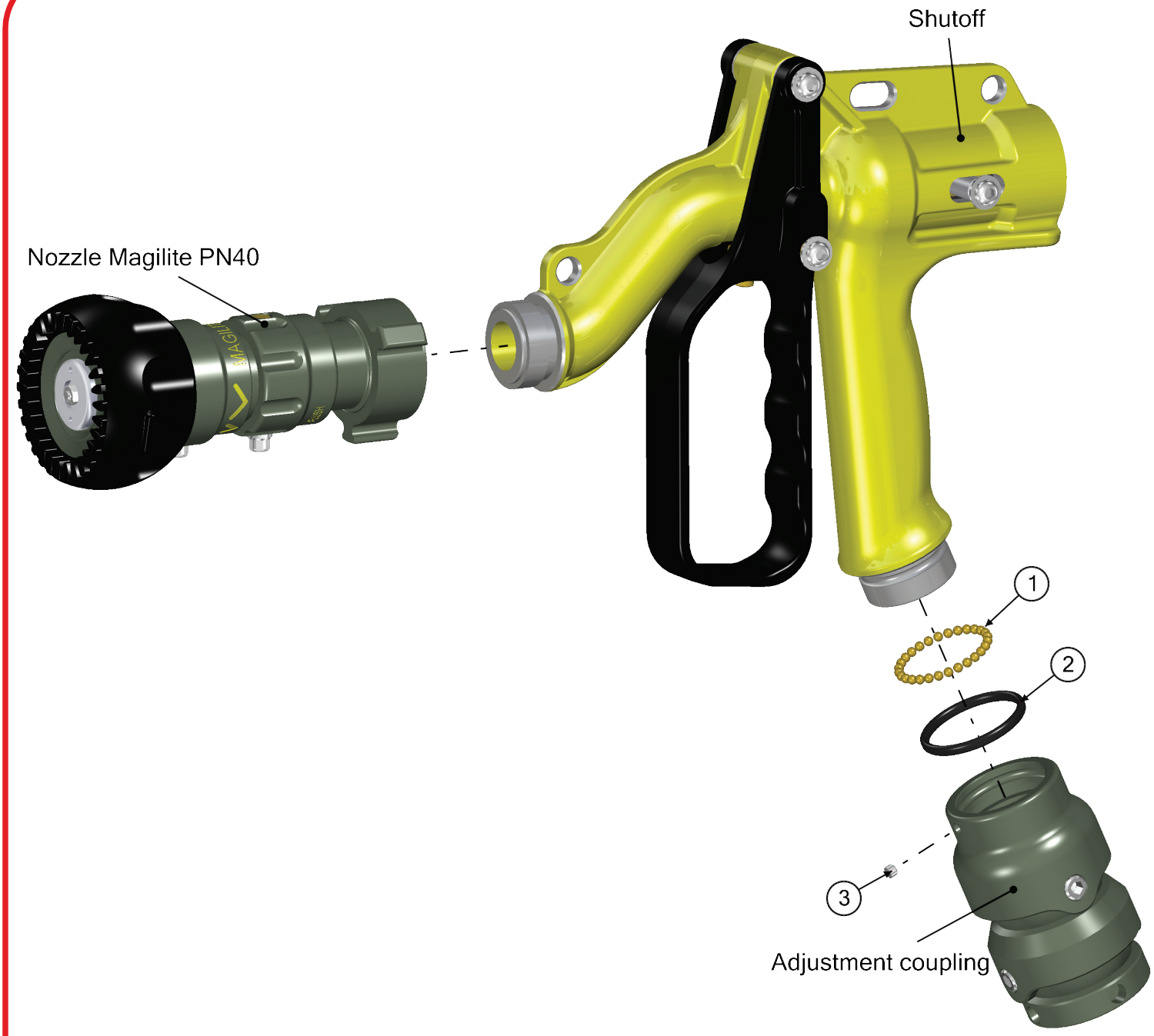
Exploded view

Overview - IPOKS



REP	QTY	DESCRIPTION	REF
1	28	Balls Ø4	
2	1	Gasket R27	
3	1	Inlet coupling cap	00752

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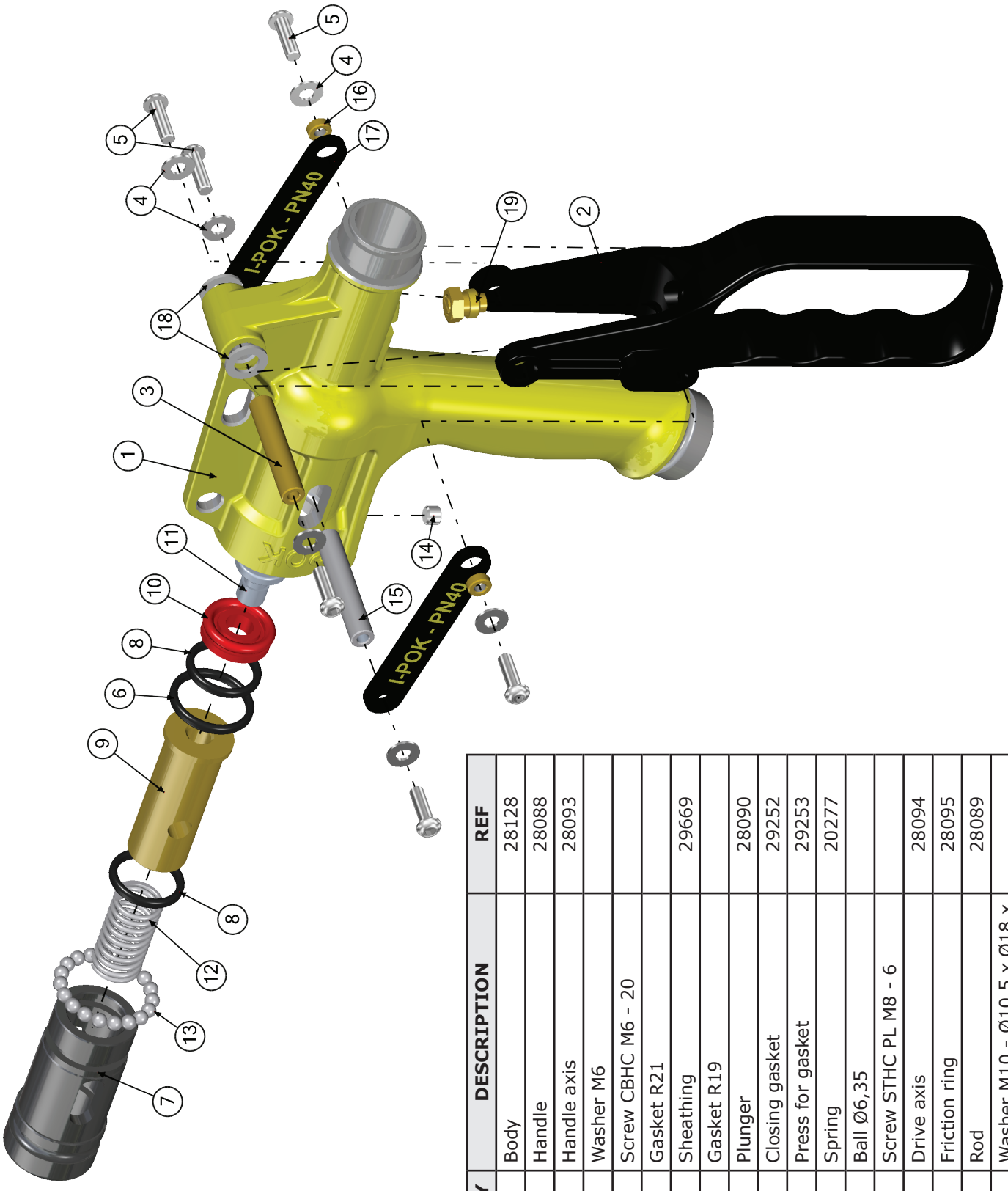
Exploded view

Shutoff - IPOK



REP	QTY	DESCRIPTION	REF
1	1	Body	28128
2	1	Handle	28088
3	1	Handle axis	28093
4	6	Washer M6	
5	6	Screw CBHC M6 - 20	
6	1	Gasket R21	
7	1	Sheathing	29669
8	2	Gasket R19	
9	1	Plunger	28090
10	1	Closing gasket	29252
11	1	Press for gasket	29253
12	1	Spring	20277
13	19	Ball Ø6,35	
14	1	Screw STHC PL M8 - 6	
15	1	Drive axis	28094
16	2	Friction ring	28095
17	2	Rod	28089
18	2	Washer M10 - Ø10,5 x Ø18 x 1,6 - DIN 433	
19	1	Locking system	28283

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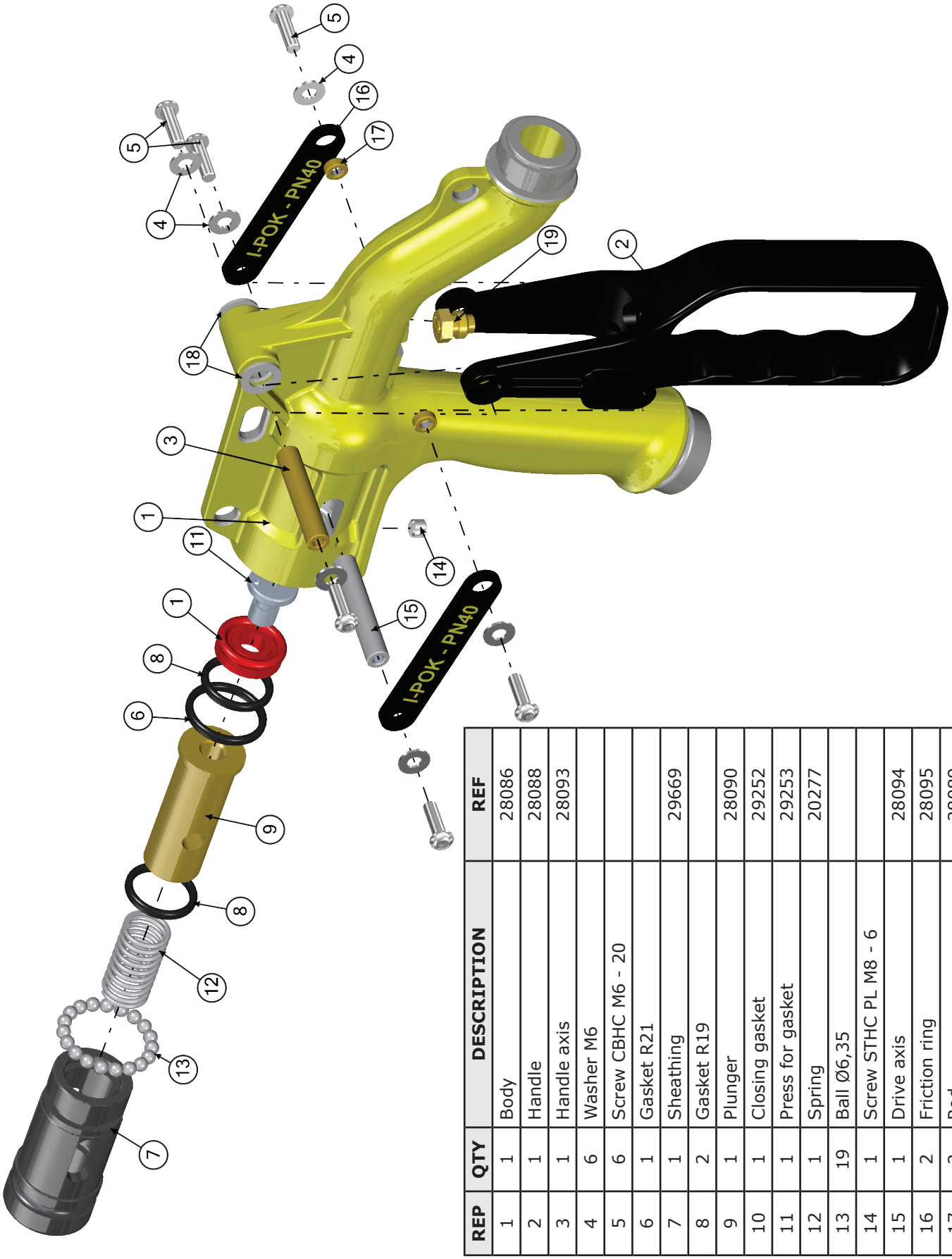
Exploded view

Shutoff - IPOKS



REP	QTY	DESCRIPTION	REF
1	1	Body	28086
2	1	Handle	28088
3	1	Handle axis	28093
4	6	Washer M6	
5	6	Screw CBHC M6 - 20	
6	1	Gasket R21	
7	1	Sheathing	29669
8	2	Gasket R19	
9	1	Plunger	28090
10	1	Closing gasket	29252
11	1	Press for gasket	29253
12	1	Spring	20277
13	19	Ball Ø6,35	
14	1	Screw STHC PL M8 - 6	
15	1	Drive axis	28094
16	2	Friction ring	28095
17	2	Rod	28089
18	2	Washer M10 - Ø10,5 x Ø18 x 1,6 - DIN 433	
19	1	Locking system	28283

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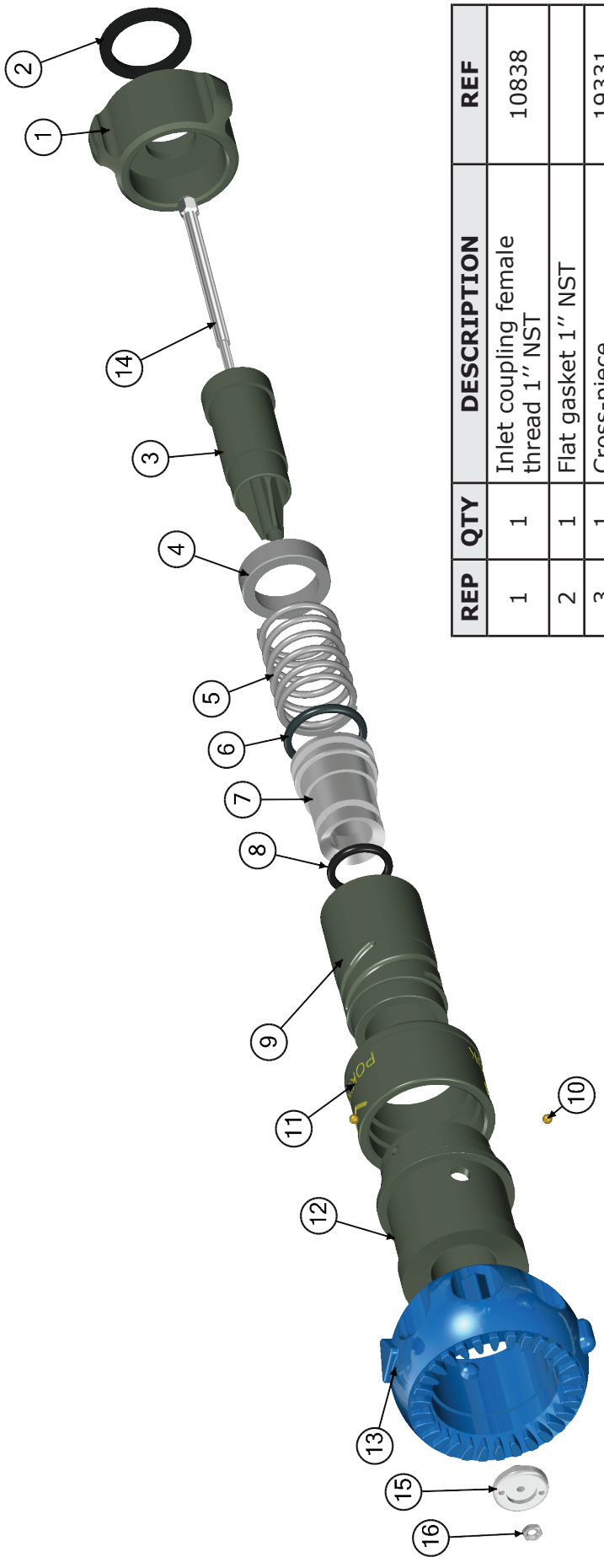
Exploded view

POKINOR 150



REP	QTY	DESCRIPTION	REF
1	1	Inlet coupling female thread 1'' NST	10838
2	1	Flat gasket 1'' NST	
3	1	Cross-piece	19331
4	1	Centering ring	11508
5	1	Flush spring	8017
6	1	Gasket R20	
7	1	Bore	8004
8	1	Gasket R15	
9	1	Sleeve	11507
10	3	Ball Ø4	
11	1	Guiding ring	8012
12	1	Head ring	28061
13	1	Protection sleeve	23999
14	1	Valve axis	19331
15	1	Valve	8009
16	1	Nut HM M4	

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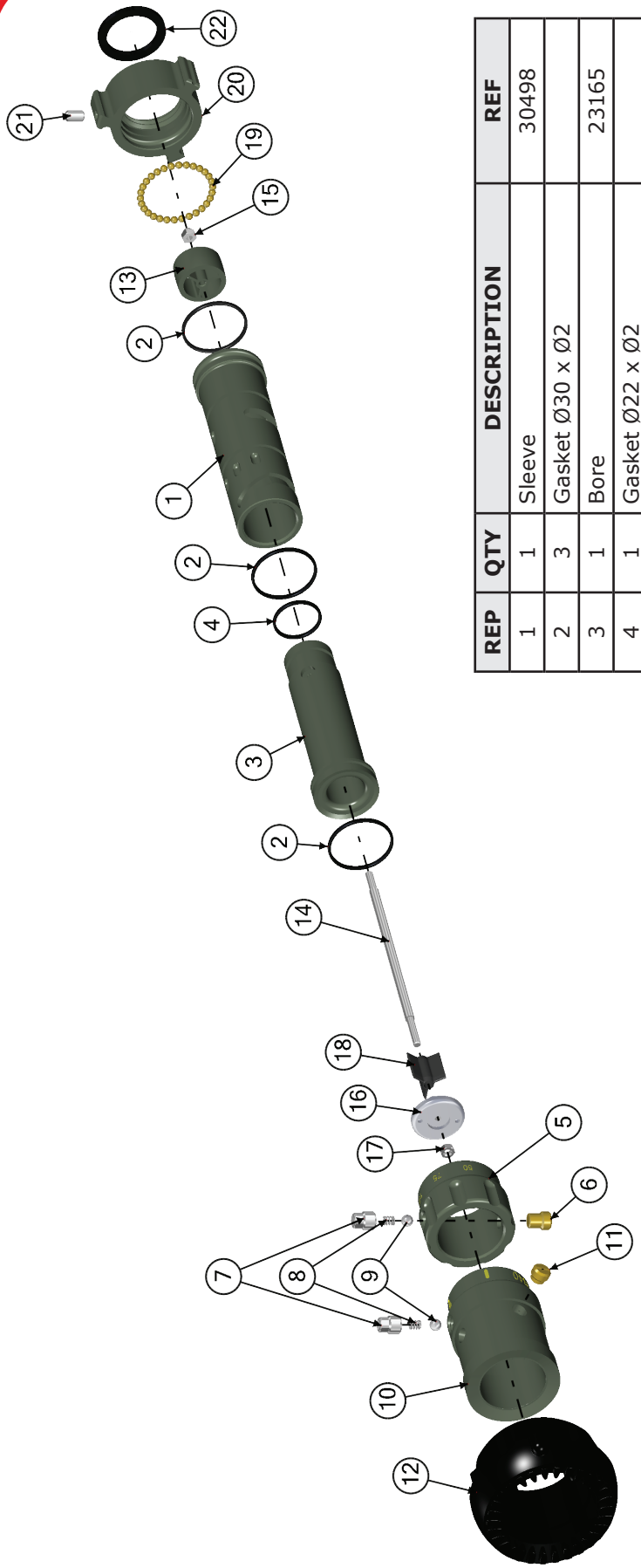
Exploded view

Nozzle Magilite PN40



REP	QTY	DESCRIPTION	REF
1	1	Sleeve	30498
2	3	Gasket Ø30 x Ø2	
3	1	Bore	23165
4	1	Gasket Ø22 x Ø2	
5	1	Flow adjustment ring	30501
6	1	Flow guide	23168
7	2	Cap for ball Ø6,35	27204
8	2	Spring	8019
9	2	Ball Ø6,35	
10	1	Head ring	30499
11	1	Jet guide	23170
12	1	Head protection sleeve	23999
13	1	Cross-pieces	23171
14	1	Valve axis	23172
15	1	Cap nut	
16	1	Valve	8116
17	1	Nut H M4	
18	1	Centering cross-pieces	24873
19	30	Ball Ø4	
20	1	Swivel female thread 1'' NST	12074
21	1	Screw STHC PL M6-10	
22	1	Flat gasket 1'' NST	

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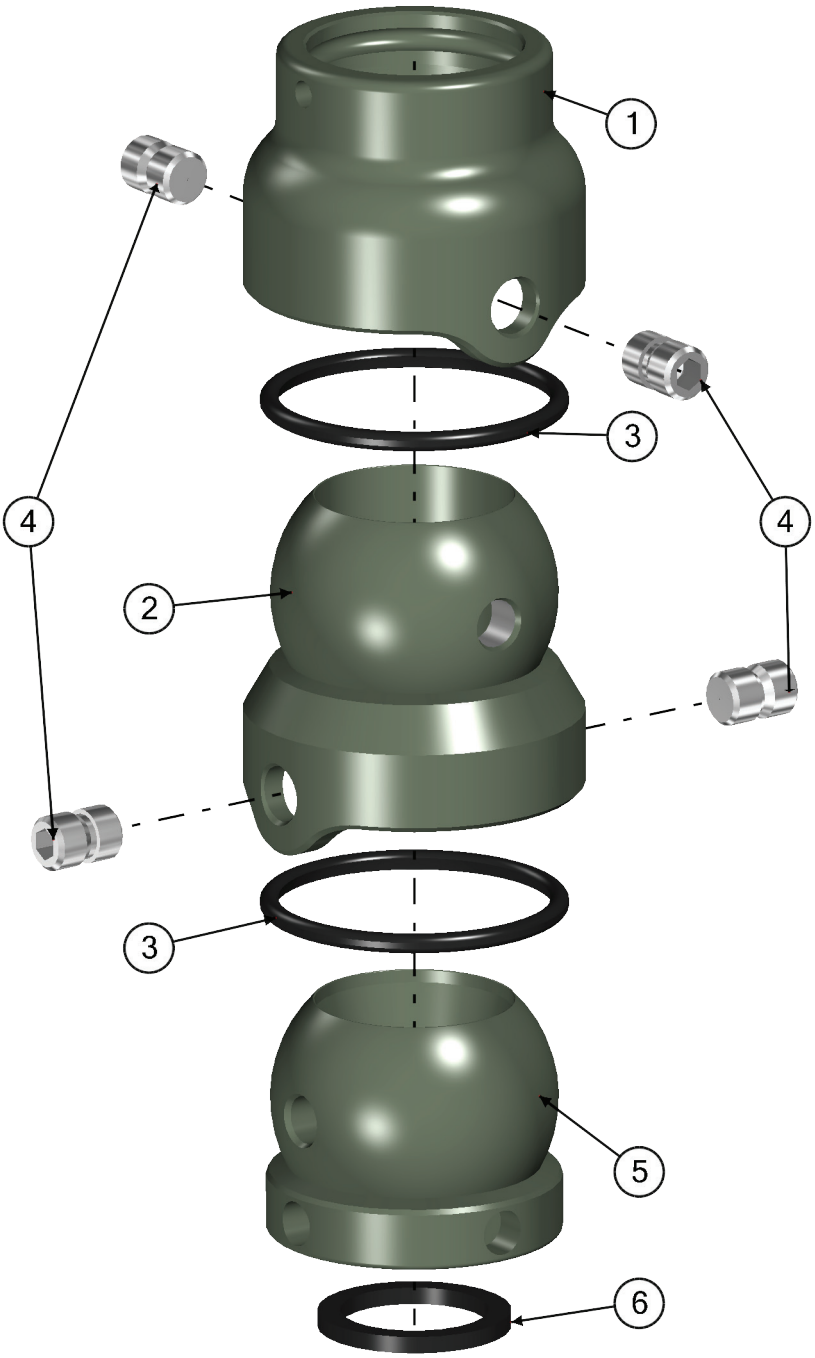
Exploded view

Adjustment coupling (1")



REP	QTY	DESCRIPTION	REF
1	1	Swivel coupling	25559
2	1	Central part	25560
3	2	Gasket Ø47,22 x Ø3,53	
4	4	Axis	25558
5	1	Inlet coupling FF 1" BSP	28282
6	1	Flat gasket 1" BSP	

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